

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/634,262A
Source: 1FW16
Date Processed by STIC: 12/10/04

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/634,262A

CRF Edit Date: 12/13/04
Edited by: AS

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

J Inserted mandatory headings/numeric identifiers, specifically:

Sequence 37 - inserted <220> above <221>

___ Moved responses to same line as heading/numeric identifier, specifically:

J Other:

corrected <1417 and <1517 responses



IFW16

RAW SEQUENCE LISTING

DATE: 12/13/2004

PATENT APPLICATION: US/10/634,262A

TIME: 16:07:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12132004\J634262A.raw

```

3 <110> APPLICANT: Myers, Alan M.
4   James, Martha G.
W--> 5 <120> TITLE OF INVENTION: dull1 Coding for a Novel Starch Synthase and Uses
W--> 6   Thereof
W--> 7 <130> FILE REFERENCE: ISU-003BX
W--> 8 <140> CURRENT APPLICATION NUMBER: US 10/634,262A
9   <141> CURRENT FILING DATE: 2003-08-05
10  <150> PRIOR APPLICATION NUMBER: US 09/554,467
11  <151> PRIOR FILING DATE: 2000-05-12
W--> 12 <160> NUMBER OF SEQ ID: 37
14  <210> SEQ ID NO: 1
15  <211> LENGTH: 6027
16  <212> TYPE: DNA
17  <213> ORGANISM: maize
W--> 18 <220> FEATURE:
19  <223> OTHER INFORMATION: cDNA sequence corresponding to the gene encoding the
20   starch synthase enzyme DU1.
W--> 21 <400> SEQUENCE: 1
23  gaattcccta gttcagagaa agaaagaagt tgagaatgag aagcaagtga ggcgcgtttg 60
24  ctgggaagtg gttcttgtga ggtttaggag ttcacccttc tttcttccc cttctagaaa 120
25  tggagatggt cctacggctg cagagccctc tctgccttcg gagtgggccc gtgctcattt 180
26  ttcgaccaac cgtcgcgggc ggaggagggg gcactcagtc tttgttgagg actaccagat 240
27  ttgcgagaag aagggtcatt cgatgcgttg tagcaagtcc aggttgtcct aataggaaat 300
28  ctaggacagc gtctcccaac gtaaaagtag ctgcttatag caactatgcg ccaagactcc 360
29  tcgttgagtc aagctccaag aagagcgaac accatgatag cagcagacac cgtgaagaaa 420
30  ctattgatac atacaatggg ctgtcagggt ctgatgcagc agaattgaca agtaatagag 480
31  atgtagaaat tgaagtggat ttgcagcaca tttctgagga ggaattgcca ggaaaagtat 540
32  cgattaatgc atcattagga gaaatggaaa cagtggatga agctgaggtc gaggaggata 600
33  agtttgaggt agatacctca ggaattgtat tgcgcaatgt tgcagttcgg gaagtggatc 660
34  caaaggatga acataatgct aaagatgtat ttgtggtaga ttcgtcagga actgcaccag 720
35  ataatgctgc agtggaggaa gtggtagatg aagctgaggt tgaagaggat atggttgatg 780
36  tggatatctt gggacttgac ttgaataatg caacgatcga ggaaattgat ttgatggaag 840
37  aggcctttact ggagaaactc gacgtggatt caccaggcaa tgcttctagt ggtcgaacct 900
38  atgggggtgt ggtgaggttg ggtgagctgc cttcaacatc cgtggattgc atcgccatta 960
39  acggaaaacg tagaagtttg aagcctaagc ccttgccaat tgtcaggttc caggaacaag 1020
40  aacagatagt ttaagcatt gttgacgaag aagggttgat tgctagttca tgtgaagaag 1080
41  gccaacgggt ggtagattac gataagcaag aggaaaactc taccgctttc gatgaacaga 1140
42  agcaattaac tgatgatttc cctgaagaag gcatacttat agttcacttc cctgagccaa 1200
43  acaatgatat tgttggatec tcaaaattct tggagcaaaa acaagaattg gatggttctt 1260
44  ataaacaaga tcgatcaacc actggattgc atgaacaaga tcagtctgtt gttagttcac 1320
45  acggacaaga taaatcaatt gttggtgtgc ctacgcaaat ccagtacaat gatcaatcta 1380
46  ttgctgggtc tcatagacaa gatcaatcaa ttgccgggtg acctgagcaa atccaatccg 1440
47  ttgctggcta tataaaacca aatcaatcta ttggttggtc ttgtaaaca catgaattga 1500

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48 ttattcctga gcctaagaaa atcgaatcca tcatcagtta caatgaaata gatcaatcta 1560
49 ttgttggttc tcacaaacaa gacaaatctg ttgttagtgt gctgagcaa atccaatcca 1620
50 ttgttagtca cagcaaacca aatcaatcta ctgttgattc ttatagacaa gctgaatcaa 1680
51 ttattggtgt gctgagaaa gtccaatcca tcaccagtta cgataaacta gaccagtcca 1740
52 ttgttggttc tcttaaacia gatgagccta ttattagcgt gctgagaaa atccaatcca 1800
53 ttgtccatta cactaaacca aatcagtccta ttgttggttc gcccaaacaa caacaatcaa 1860
54 ttgttcatat cgttgaacca aaacagtcca tagatgggtt ccctaaacaa gatctatcaa 1920
55 tcgttggtat ctccaatgag tttcaaacaa agcaactggc tactgttggg actcatgatg 1980
56 gattgcttat gaagggtgtg gaagctaagg agacatctca aaagactgaa ggggatacac 2040
57 ttcaggcaac gttcaatgtc gacaacttgt cacagaaaca ggaaggctta actaaagaag 2100
58 cagacgagat aacaattatt gagaaaatca atgatgaaga ccttgtgatg attgaagaac 2160
59 agaaaagcat agccatgaat gaagaacaga cgattgttac cgaagaagac attccaatgg 2220
60 ctaaggttga gataggaatt gacaaggcca aatttttaca tctgctttct gaagaagaga 2280
61 gttcatggga tgaaaatgaa gtgggaataa ttgaggctga tgaacagtat gaagtcgatg 2340
62 agacatctat gtccactgaa caagatatcc aggaatcacc taatgatgat ttggatccac 2400
63 aagcactatg gagtatgctt caagagcttg ctgaaaaaaa ttattcgctg ggaaacaagt 2460
64 tgtttactta tccagatgta ttgaaagctg attcaacaat tgatctctat ttcaatcgtg 2520
65 atctatcagc tgtggccaat gagcctgatg tacttatcaa aggagcattc aatgggtgga 2580
66 agtggagatt tttcactgaa aaattgcaca agagcgagct ggcaggggac tgggtggtgct 2640
67 gcaaaactata cattcctaag caggcataca gaatggactt tgtgtttttt aacggacaca 2700
68 cggatatatga aaataataac aataatgatt tcgtgatata aatagaaagc accatggatg 2760
69 aaaatttatt tgaggatttc ttggctgaag aaaagcaacg agaacttgag aaccttgcaa 2820
70 atgaggaagc tgaaaggagg agacaaactg atgagcagcg gcgaatggag gaagaaagg 2880
71 ccgcagataa agctgacagg gtacaagcca aggttgaggt agagacgaag aagaataaat 2940
72 tgtgcaatgt attgggttta gccagagctc ctgttgataa tttatggtac attgagccca 3000
73 tcacgactgg acaaggagct actgtcagat tgtattataa cataaactca agacctctag 3060
74 ttcacagtac tgagatatgg atgcatggtg gctataacaa ttggattgat ggactctctt 3120
75 ttgctgaaag gcttggtcat catcatgaca aagattgtga ttggtggttt gcagatggtg 3180
76 tcgtgctga aagaacatat gtattggact gggtttttgc tgacggccca ccaggagtg 3240
77 caaggaatta tgacaacaat ggaggacatg attttcatgc tacccttcca aataacatga 3300
78 ctgaggaaga gtattggatg gaagaagaac aaaggatcta tacaaggctt caacaagaga 3360
79 ggagggaag ggaggaggct attaaaagga aggtgagag aaatgcaaaa atgaaagctg 3420
80 agatgaagga aaagactatg agaatgttcc tgggtttctca gaaacacatt gtttacaccg 3480
81 aaccacttga aatacatgct ggaactacta ttgatgtgct ttataatcct tctaatacag 3540
82 ttctaactgg aaagccagag gtttggtttc gatgttctt taatcgttg atgtatccag 3600
83 gtggggtgtt gccacctcag aagatggtac aagcagaaaa tggttcacac ctaaaagcaa 3660
84 cagtttacgt tccacgagat gcctatatga tggacttcgt tttctcggag tcagaagaag 3720
85 gtggaattta tgataacaga aatgggttag actatcatat tctgtttttt gggccaattg 3780
86 caaaggaacc acctatgcac attgtccaca ttgctgttga gatggcacca atcgaaagg 3840
87 ttggagggtc ttggtgatgt gtcactagtc tttcacgtgc tgtgcaagat ttaggacaca 3900
88 atgtggaggt tattcttcca aagtacggtt gcttgaatct aagcaatgtc aagaatctac 3960
89 aaatccatca gagtttttct tggggtggtt ctgaaataaa tgtgtggcgt ggactagtcg 4020
90 aaggcctttg tgtttacttc ctggaacctc aaaatgggat gtttgagtc ggatatgtat 4080
91 atggcagggg cgatgaccgc cgatttggtt tcttctgtcg ttctgctcta gagtttctcc 4140
92 tccaaagtgg atcttctccg aacataatac attgccatga ttggtcaagt gctcctgttg 4200
93 cctggctaca caaggaaaac tacgcgaagt ctagcttggc aaacgcacgg gtggtattca 4260
94 ccatccacaa tcttgaattt ggagcgcac atattggcaa agcaatgaga tattgtgata 4320
95 aagcaacaac tgtctcta atacatattcaa aggaagtgtc aggtcatggt gccatagttc 4380
96 ctcatcttgg gaaattctat ggcattctca atggaattga tccggatata tgggatccgt 4440

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12132004\J634262A.raw

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97 acaatgacaa ctttatcccg gtccactaca cttgtgagaa tgtgggttgaa ggcaagaggg 4500
98 ctgctaagag ggcactgcag cagaagtttg ggttacagca aatcgatgtc cccgtcgtag 4560
99 gaatcgtcac tcgcctgaca gcccaaaagg ggatccacct gatcaagcat gcgattcacc 4620
100 gtacactcga acggaacgga caggtggttt tgccttggttc agcgccggac tctcgaatcc 4680
101 aagctgattt tgtcaacctg gcgaatacgc tccacggcgt aaacctaggg caagtgaggc 4740
102 tttccttgac ctacgacgag cctctctcgc atctgatata cgctggctct gacttcattc 4800
103 tgggtcccatc tatatttgag ccttgcgggc taactcagct cgtcgccatg cggtatggaa 4860
104 ccatcccgat tgtccgcaag actggagggc tcttcgacac tgtcttcgat gtggacaatg 4920
105 acaaggaacg agcccagat cgaggccttg agcccaacgg gtttagcttt gacggagctg 4980
106 atagcaacgg tgttgactac gcgctgaaca gggcgatctc agcttggttc gatgcccgga 5040
107 gctgggtcca ctccctttgc aagagagtca tggagcagga ctggtcgtgg aaccgacctg 5100
108 cctcgcacta catcgagctc taccgttcag cgtccaaatt gtaataatcc aaacaacggc 5160
109 caatgtagtg tgttgtctgc aggtctcaga tgcagccatt cagcttttgc aggttcctgg 5220
110 gcattgctgt acagcctcct tgtctttagt tagctccatt ccccgaggag cacagtgcaa 5280
111 ttttttatcc tcagttatta tgcatagatt gtctcagtag aatgctttct tcgggcatgt 5340
112 atgtttgttt cctctgttgt tgaattctgg tgttaagtcg cgtataggaa tctacaggaa 5400
113 atgaaaaagt ccatttcctg cgtcaacctt ttagggctac catgcacatg agacctttca 5460
114 agtgcaaaaga atattaggac tagactacta gtatgtgaac tctatttttc caagagattt 5520
115 caatttttcc aatgaaaaat aaactaattt ttcttggaaa aatggaaaatc ccttggaaaa 5580
116 atgggggtcc caaactagcc cgtagagtat agatcataga attggtctag tgggttcctcg 5640
117 agagagaaaa aaacatagac ttttcttgtc atatgcttat ttaagtttat tttgtacaaa 5700
118 ctttgagaac cttcaaaaac accccaatgg ctggttaagt gaccagggaa ataaagagga 5760
119 tctataggga ggaatcccc cctctctct cacagatgtt gcctagcacc ggccagcctc 5820
120 atccgtccag tggaaattaag gttggttgcg acgacagccc atcaatggaa accaacctcg 5880
121 tgccccgtgc cgggatctac cttccttcct caccaccacg ccgatctcac cttccatagg 5940
122 agcttcctat gcaactgttac ctattatagg tacatgacat tgtacatctt tgtatgaact 6000
123 tacatcaatg ccaaaaaatcc ggaattc 6027

```

125 <210> SEQ ID NO: 2

126 <211> LENGTH: 21

127 <212> TYPE: DNA

128 <213> ORGANISM: artificial sequence

W--> 129 <220> FEATURE:

130 <221> NAME/KEY: primer_bind

131 <223> OTHER INFORMATION: Primer dul-spl used to amplify fragment F500 from pJW3

W--> 132 <400> SEQUENCE: 2

133 gtacaatgac aacttttatcc c 21

135 <210> SEQ ID NO: 3

136 <211> LENGTH: 23

137 <212> TYPE: DNA

138 <213> ORGANISM: artificial sequence

W--> 139 <220> FEATURE:

140 <221> NAME/KEY: primer_bind

141 <223> OTHER INFORMATION: Primer dul-sp2 used to amplify fragment F500 from pJW3

W--> 142 <400> SEQUENCE: 3

143 cattctcaca agtgtagtgg acc 23

145 <210> SEQ ID NO: 4

146 <211> LENGTH: 20

147 <212> TYPE: DNA

148 <213> ORGANISM: artificial sequence

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```

W--> 149 <220> FEATURE:
      150 <221> NAME/KEY: primer_bind
      151 <223> OTHER INFORMATION: Primer dul-sp4 used to amplify cloned BamHI fragment.
W--> 152 <400> SEQUENCE: 4
      153 gtcgtaggaa tcgtcactcg                20
      155 <210> SEQ ID NO: 5
      156 <211> LENGTH: 20
      157 <212> TYPE: DNA
      158 <213> ORGANISM: artificial sequence
W--> 159 <220> FEATURE:
      160 <221> NAME/KEY: primer_bind
      161 <223> OTHER INFORMATION: (1030 primer located 19 bp proximal to EcoRI cloning
      162      site in the left arm in (gt11 phage DNA used to
      163      amplify cDNA inserts
W--> 164 <400> SEQUENCE: 5
      165 attggtggcg acgactcctg                20
      167 <210> SEQ ID NO: 6
      168 <211> LENGTH: 20
      169 <212> TYPE: DNA
      170 <213> ORGANISM: artificial sequence
W--> 171 <220> FEATURE:
      172 <221> NAME/KEY: primer_bind
      173 <223> OTHER INFORMATION: (1356 primer located 281 bp distal to EcoRI cloning
      174      site in the LacZ' region in the right arm in (gt11
      175      phage DNA used to amplify cDNA inserts.
W--> 176 <400> SEQUENCE: 6
      177 gtgtgggggt gatggcttcc                20
      179 <210> SEQ ID NO: 7
      180 <211> LENGTH: 20
      181 <212> TYPE: DNA
      182 <213> ORGANISM: artificial sequence
W--> 183 <220> FEATURE:
      184 <221> NAME/KEY: primer_bind
      185 <223> OTHER INFORMATION: Primer du-F3 used to amplify Dul mRNA
W--> 186 <400> SEQUENCE: 7
      187 ataaatgtgt ggcgtggact                20
      189 <210> SEQ ID NO: 8
      190 <211> LENGTH: 20
      191 <212> TYPE: DNA
      192 <213> ORGANISM: artificial sequence
W--> 193 <220> FEATURE:
      194 <221> NAME/KEY: primer_bind
      195 <223> OTHER INFORMATION: Primer du-R1 used to amplify Dul mRNA
W--> 196 <400> SEQUENCE: 8
      197 cgttccttgt cattgtccac                20
      198 <210> SEQ ID NO: 9
      199 <211> LENGTH: 6
      200 <212> TYPE: PRT
      201 <213> ORGANISM: maize

```

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```

W--> 202 <220> FEATURE:
      203 <222> LOCATION: REPEAT
      204 <223> OTHER INFORMATION: Six residue M-box sequence in first half- repeat of ten
      205      residue sequence of SBE-repeat in DU1.
W--> 206 <400> SEQUENCE: 9
      207 Asp Gln Ser Ile Val Gly
      208 1      5
      210 <210> SEQ ID NO: 10
      211 <211> LENGTH: 4
      212 <212> TYPE: PRT
      213 <213> ORGANISM: maize
W--> 214 <220> FEATURE:
      215 <222> LOCATION: REPEAT
      216 <223> OTHER INFORMATION: Four residue sequence of second half-repeat of
      217      ten residue SBE-repeat sequence in DU1.
W--> 218 <400> SEQUENCE: 10
      219 Ser His Lys Gln
      220 1
      222 <210> SEQ ID NO: 11
      223 <211> LENGTH: 6
      224 <212> TYPE: PRT
      225 <213> ORGANISM: unknown
W--> 226 <220> FEATURE:
      227 <222> LOCATION: REPEAT
      228 <223> OTHER INFORMATION: M-box sequence in SBEI enzyme.
W--> 229 <400> SEQUENCE: 11
      230 Asp Gln Ala Leu Val Gly
      231 1      5
      233 <210> SEQ ID NO: 12
      234 <211> LENGTH: 1674
      235 <212> TYPE: PRT
      236 <213> ORGANISM: maize
W--> 237 <220> FEATURE:
      238 <223> OTHER INFORMATION: Deduced amino acid sequence of starch synthase DU1.
W--> 239 <400> SEQUENCE: 12
      240 Met Glu Met Val Leu Arg Ser Gln Ser Pro Leu Cys Leu Arg Ser
      241 1      5      10      15
      243 Gly Pro Val Leu Ile Phe Arg Pro Thr Val Ala Gly Gly Gly Gly
      244      20      25      30
      246 Gly Thr Gln Ser Leu Leu Arg Thr Thr Arg Phe Ala Arg Arg Arg
      247      35      40      45
      249 Val Ile Arg Cys Val Val Ala Ser Pro Gly Cys Pro Asn Arg Lys
      250      50      55      60
      252 Ser Arg Thr Ala Ser Pro Asn Val Lys Val Ala Ala Tyr Ser Asn
      253      65      70      75
      255 Tyr Ala Pro Arg Leu Leu Val Glu Ser Ser Ser Lys Lys Ser Glu
      256      80      85      90
      259 His His Asp Ser Ser Arg His Arg Glu Glu Thr Ile Asp Thr Tyr
      260      95      100      105

```

VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

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L:5 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:12 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:283 W: Missing Blank Line separator, <220> field identifier
L:132 M:283 W: Missing Blank Line separator, <400> field identifier
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <400> field identifier
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:186 M:283 W: Missing Blank Line separator, <400> field identifier
L:193 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier
L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:218 M:283 W: Missing Blank Line separator, <400> field identifier
L:226 M:283 W: Missing Blank Line separator, <220> field identifier
L:229 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <220> field identifier
L:239 M:283 W: Missing Blank Line separator, <400> field identifier
L:588 M:283 W: Missing Blank Line separator, <220> field identifier
L:589 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:593 M:283 W: Missing Blank Line separator, <400> field identifier
L:610 M:283 W: Missing Blank Line separator, <220> field identifier
L:612 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:612 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:615 M:283 W: Missing Blank Line separator, <400> field identifier
L:632 M:283 W: Missing Blank Line separator, <220> field identifier
L:634 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:637 M:283 W: Missing Blank Line separator, <400> field identifier
L:653 M:283 W: Missing Blank Line separator, <220> field identifier
L:654 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:657 M:283 W: Missing Blank Line separator, <400> field identifier
L:664 M:283 W: Missing Blank Line separator, <220> field identifier
L:665 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:668 M:283 W: Missing Blank Line separator, <400> field identifier
L:675 M:283 W: Missing Blank Line separator, <220> field identifier
L:676 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:679 M:283 W: Missing Blank Line separator, <400> field identifier

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Input Set : A:\PTO.AMC.txt

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L:687 M:283 W: Missing Blank Line separator, <220> field identifier
L:688 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:691 M:283 W: Missing Blank Line separator, <400> field identifier
L:699 M:283 W: Missing Blank Line separator, <220> field identifier
L:700 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:703 M:283 W: Missing Blank Line separator, <400> field identifier
L:711 M:283 W: Missing Blank Line separator, <220> field identifier
L:712 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:715 M:283 W: Missing Blank Line separator, <400> field identifier
L:723 M:283 W: Missing Blank Line separator, <220> field identifier
L:724 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:727 M:283 W: Missing Blank Line separator, <400> field identifier
L:735 M:283 W: Missing Blank Line separator, <220> field identifier
L:736 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:739 M:283 W: Missing Blank Line separator, <400> field identifier
L:748 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:763 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:778 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:849 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:865 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:881 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1183 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/634,262A

DATE: 12/10/2004

TIME: 10:51:32

Input Set : A:\ISU-003AX Seq.txt

Output Set: N:\CRF4\12102004\J634262A.raw

3 <110> APPLICANT: Myers, Alan M.
 4 James, Martha G.
 W--> 5 <120> TITLE OF INVENTION: dult1 Coding for a Novel Starch Synthase and Uses
 W--> 6 Thereof
 W--> 7 <130> FILE REFERENCE: ISU-003BX
 W--> 8 <140> CURRENT APPLICATION NUMBER: US 10/634,262A
 9 <141> CURRENT FILING DATE: 2003-8-5 2003-08-05
 10 <150> PRIOR APPLICATION NUMBER: US 09/554,467
 W--> 11 <151> PRIOR FILING DATE: 2000-5-12 2000-05-12
 W--> 12 <160> NUMBER OF SEQ ID: 37

ERRORED SEQUENCES

1178 <210> SEQ ID NO: 37
 1179 <211> LENGTH: 32
 1180 <212> TYPE: DNA
 1181 <213> ORGANISM: artificial sequence
 W--> 1182 <221> NAME/KEY: primer
 W--> 1183 <220> FEATURE:
 1183 <223> OTHER INFORMATION: Primer containing restriction sites
 E--> 1184 <400> SEQUENCE: 37
 1185 aaaccgggaattcgatggagatggtcctacg

Does Not Comply
 Corrected Diskette Needed

insert
 a 2207 above 2217 line

32

VERIFICATION SUMMARY

DATE: 12/10/2004

PATENT APPLICATION: US/10/634,262A

TIME: 10:51:33

Input Set : A:\ISU-003AX Seq.txt

Output Set: N:\CRF4\12102004\J634262A.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:9 M:256 W: Invalid Numeric Header Field, Wrong Current FILING DATE:YYYY-MM-DD
L:11 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:12 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:283 W: Missing Blank Line separator, <220> field identifier
L:132 M:283 W: Missing Blank Line separator, <400> field identifier
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <400> field identifier
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:186 M:283 W: Missing Blank Line separator, <400> field identifier
L:193 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier
L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:218 M:283 W: Missing Blank Line separator, <400> field identifier
L:226 M:283 W: Missing Blank Line separator, <220> field identifier
L:229 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <220> field identifier
L:239 M:283 W: Missing Blank Line separator, <400> field identifier
L:588 M:283 W: Missing Blank Line separator, <220> field identifier
L:589 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:593 M:283 W: Missing Blank Line separator, <400> field identifier
L:610 M:283 W: Missing Blank Line separator, <220> field identifier
L:612 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:612 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:615 M:283 W: Missing Blank Line separator, <400> field identifier
L:632 M:283 W: Missing Blank Line separator, <220> field identifier
L:634 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:637 M:283 W: Missing Blank Line separator, <400> field identifier
L:653 M:283 W: Missing Blank Line separator, <220> field identifier
L:654 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:657 M:283 W: Missing Blank Line separator, <400> field identifier
L:664 M:283 W: Missing Blank Line separator, <220> field identifier
L:665 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:668 M:283 W: Missing Blank Line separator, <400> field identifier
L:675 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/634,262A

DATE: 12/10/2004

TIME: 10:51:33

Input Set : A:\ISU-003AX Seq.txt

Output Set: N:\CRF4\12102004\J634262A.raw

L:676 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:679 M:283 W: Missing Blank Line separator, <400> field identifier
L:687 M:283 W: Missing Blank Line separator, <220> field identifier
L:688 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:691 M:283 W: Missing Blank Line separator, <400> field identifier
L:699 M:283 W: Missing Blank Line separator, <220> field identifier
L:700 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:703 M:283 W: Missing Blank Line separator, <400> field identifier
L:711 M:283 W: Missing Blank Line separator, <220> field identifier
L:712 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:715 M:283 W: Missing Blank Line separator, <400> field identifier
L:723 M:283 W: Missing Blank Line separator, <220> field identifier
L:724 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:727 M:283 W: Missing Blank Line separator, <400> field identifier
L:735 M:283 W: Missing Blank Line separator, <220> field identifier
L:736 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:739 M:283 W: Missing Blank Line separator, <400> field identifier
L:748 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:763 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:778 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:849 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:865 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:881 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:1183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37
L:1184 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:37